Designed for NC Applications

GNT 4604
Reader/Punch Station

Light and compact
Reliable and versatile
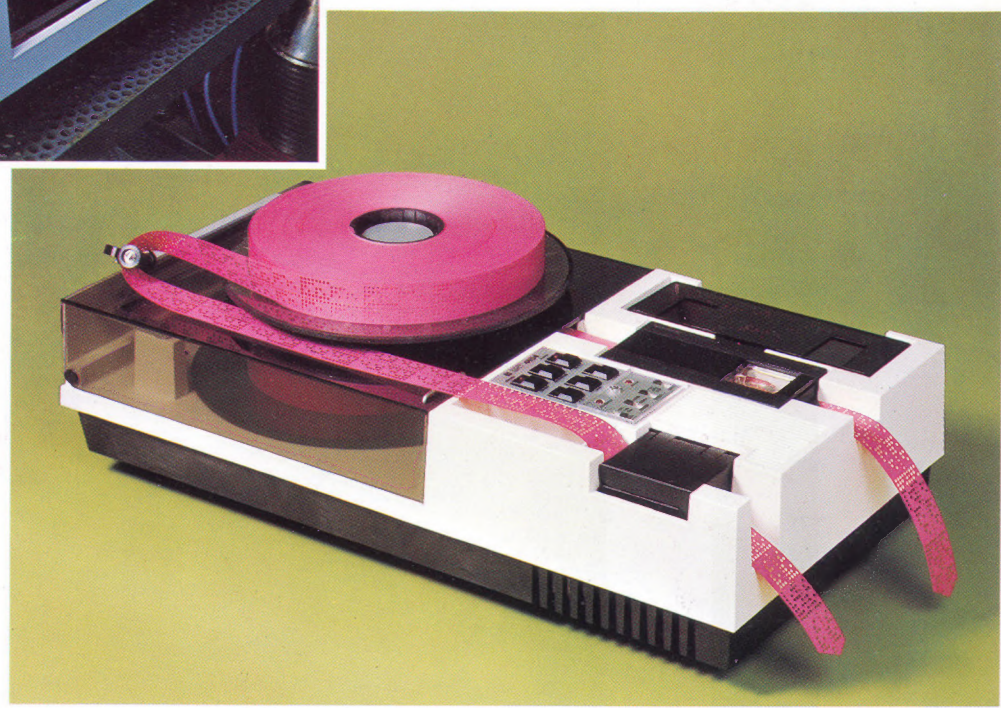

GNT
AUTOMATIC A/S

General

The GNT 4604 is the ideal Reader/Punch combination for NC as well as CNC applications. It provides the link between the text editor on which programs are written and the NC machines which carry them out.

Applications

- Punching tape from a terminal, computer or word processor.
- Loading the NC machinery.
- Punching a program which has been modified on the NC machine.
- Copying and editing tapes.
- Code conversion.
- Sending/receiving programs via modem.
- Program storage.

Communication with a NC machine.

Using the optional unwinder.

Punch

GNT 4604 utilizes the highly reliable GNT 36 punch mechanism. The tape dispenser handles an 8'' roll, maintains proper tape tension and signals taut tape and tape out.

Punching speed is up to 75 char./s.

Reader

The reader is the new GNT 29 with reading speed up to 400 char./s. The built-in tape container handles programs of up to 8 K-bytes.

For larger programs (up to 120 K) an unwinder is available.
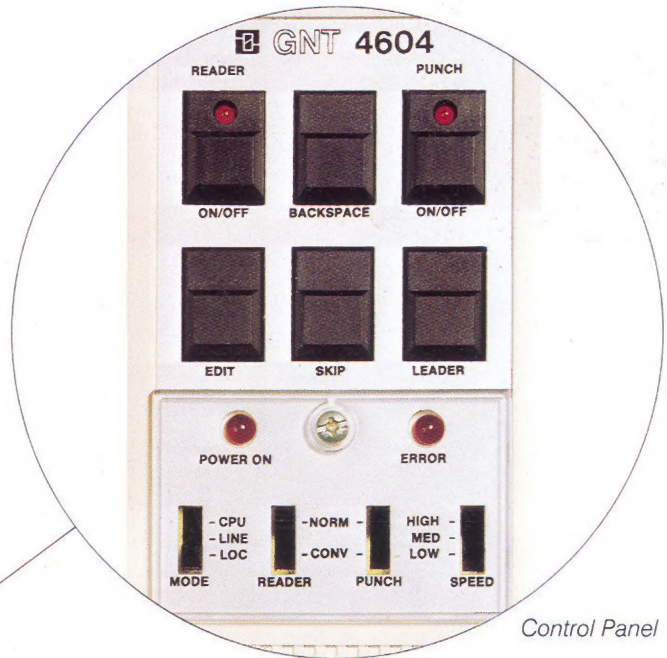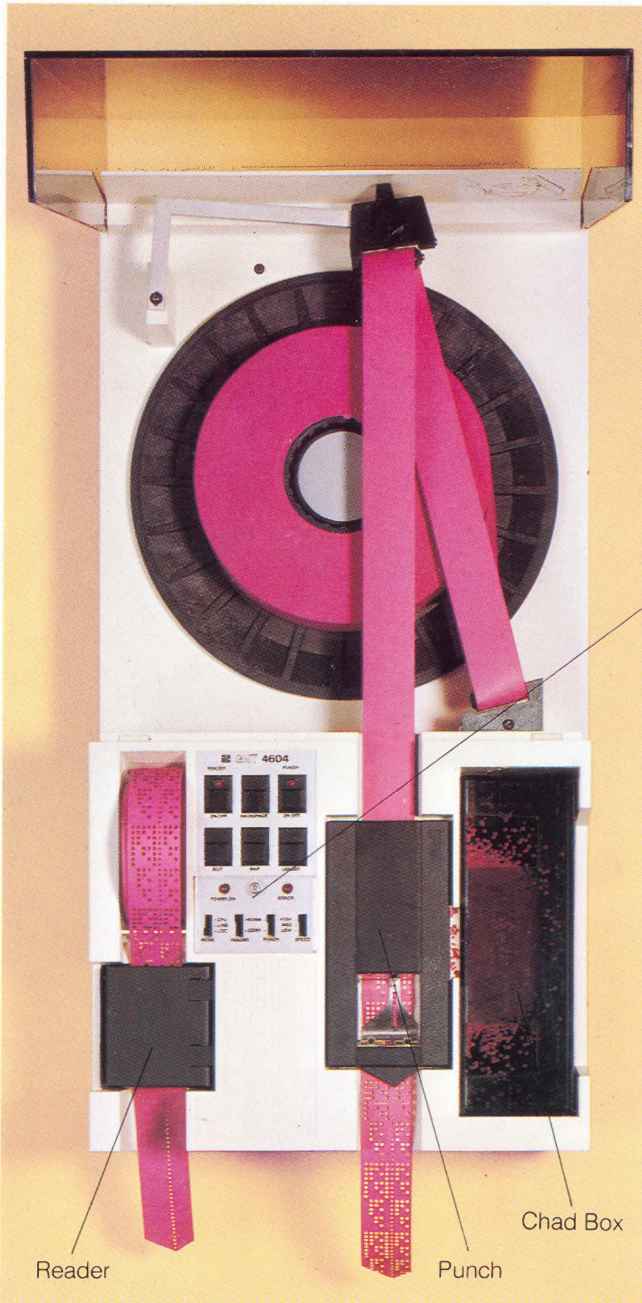
Features

Complete Editing Facilities
- Line at-a-time.
- Character at-a-time
- Skip
- Backspace

Error Indication
- Tape out
- Taut tape
- Framing error

Interface
- Easy to interface with all types of NC equipment.
- 3 operating modes give flexible interface capability.
- Baud rates from 110 to 4800.
- RS 232C/V24 or RS491 standard.
- 20/60 mA current loop.
- Handshaking.

Control Panel

Reader

Punch

Chad Box

GNT 4604 Reader/Punch Station.

Selectable Parameters
- Mode.
- Speed.
- Remote Control.
- 7 or 8 bit word length.
- Parity check/generation.
- Codes: ASCII/ISO/EIA.
- Type of leader either feed holes or all channels.
- Echo.

Specifications

General

Dimensions:

Length	477 mm
Width	246 mm
Height	125 mm

Weight: 6 kg

Environment

Temperature:
Ambient operating:
+5°C to +40°C
Ambient storage:
−40°C to +70°C

Humidity:
15-95% RH, non-condensing

A. C. Supply (selectable)

Switch setting:	115V	220V
Voltage:	100-125V	200-250V
Frequency:	47-63 Hz	47-63Hz
Power:	95W	95W

Performance

Punching speed:
up to 75 char./s.

Reading speed:
up to 400 char./s.

Type of punching:
8-unit (ISO-1154)

Data rates:
from 110 to 4800 Baud

Codes:
ASCII/ISO or EIA

Reliability:

MTBF:	3×10^7 char.
MTTR:	30 min.

DIP Switch Setting

SW 1					
on		Echo. (Local only).			
off		No function.			
SW 2					
on		LEADER. All channels and feed hole.			
off		Feed hole only.			
SW 3					
on		Remote control by DC code (XON/XOFF).			
off		Disabled.			
SW 4	**SW 5**	WORD LENGTH		PARITY CHECK	
on	on	7 bit		None	
on	off	8 bit		None	
off	on	8 bit		Data to Punch	
off	off	8 bit		Data from/to Reader/Punch	
SW 6	**SW 7**	LOW	MED	HIGH	
on	on	110 Baud	300 Baud	600 Baud	
off	on	150 Baud	300 Baud	1200 Baud	1 stop bit
on	off	150 Baud	300 Baud	2400 Baud	
off	off	200 Baud	300 Baud	4800 Baud	
SW 8					
on		Paper tape code ISO*			
off		Paper tape code EIA*			

* With Reader/Punch set to CONV.

Input and Output signals

DB-25S	DB-25P
To DTE (Terminal)	To DCE (Modem)

Signal connectors, seen from rear

1	PG	Protective Ground
2	TD	Transmitted Data
3	RD	Received Data
4	RTS	Request To Send
5	CTS	Clear To Send
6	DSR	Data Set Ready
7	SG, Tx-	Signal Ground, Current loop transmit
9	Tx+	Current loop transmit
13	Rx-	Current loop receive
18	Rx+	Current loop receive
20	DTR	Data Terminal Ready

The pin configurations of the 2 connectors are identical, but signal directions are reversed.
Undesignated pins of the same number are connected together to give a direct throughput.
All signals - except current loop - in accordance with CCITT V24 and V28. Current loop 20/60 mA, passive.

Tape

For punch (GNT 36):

Material:
According to ISO 1729

Forms:
Rolls max. diameter 8'',
standard 2'' core

Width:
1'' (25.4 mm), 8-unit

Thickness:
0.05 - 0.12 mm

For reader (GNT 29):

Material:
Any with transmissivity up to 50%

Form:
Rolls up to 3'' (75 mm)
With supply reel option, 8''
(200 mm) roll

Width:
1'' (25.4 mm), 8-unit

Specifications subject to change.